

DRILL HOLES

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BORDER REV: DATE: 09/20/11

BY: \$USER\$

## PROJECT DESCRIPTION

### GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF AN INTERSECTION CONTROL BEACON AT THE INTERSECTION OF MD 4 (SOUTHERN MARYLAND BLVD) AND CHANEY ROAD IN CALVERT COUNTY. A TWIN MAST ARM STRUCTURE AND A SINGLE MAST ARM STRUCTURE ARE PROPOSED IN BOTH MEDIANS. STREET LIGHTING WILL BE INSTALLED ON THE PROPOSED SIGNAL POLES. MD 4 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

### INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN FLASHING MODE WITH FLASHING YELLOW ON MD 4 AND FLASHING RED ON CHANEY ROAD.

### CONTROLLER REQUIREMENTS

INSTALL A NEW EIGHT-PHASE FULLY ACTUATED TRAFFIC SIGNAL CONTROLLER AND ASSOCIATED HARNESSSES IN A NEMA SIZE 6" BASE MOUNTED CABINET.

### PHONE DROP

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #5 / OOTS:

### District #5

Ms. Kimberly Tran  
Assistant District Engineer - Traffic  
Phone: 410-841-1019

Mr. Mike Huber  
District Utility Engineer  
Phone: 410-841-1033

Mr. John S. Mays  
Assistant District Engineer - Maintenance  
Phone: 410-841-1013

Mr. James Folden  
Assistant District Engineer - Construction  
Phone: 410-841-1031

### Office Of Traffic & Safety

Mr. Richard L. Daff Sr.  
Chief, Traffic Operations Division  
Phone: 410-787-7630

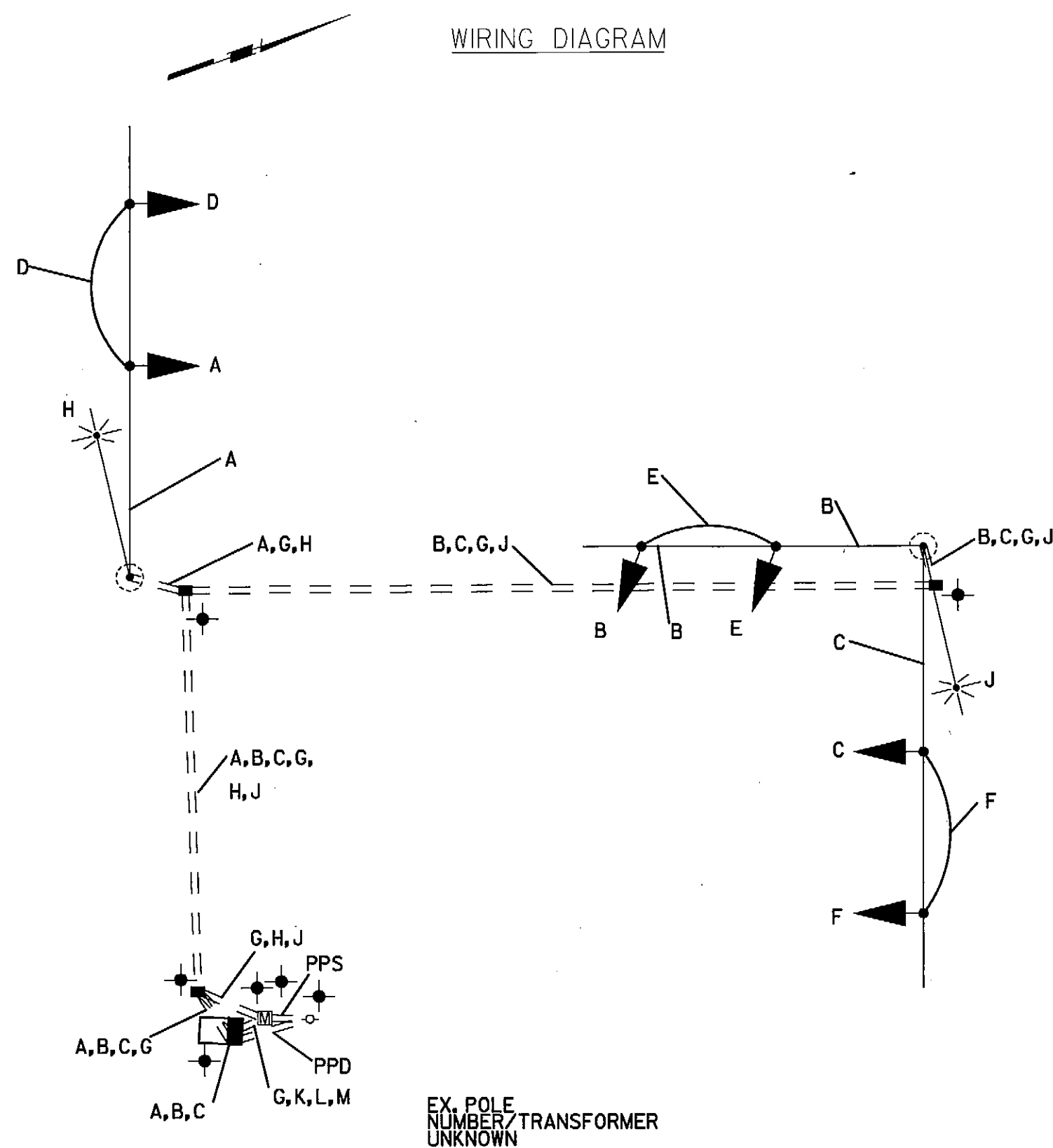
Mr. Robert Snyder  
Assistant Division Chief, Traffic Operations  
410-787-7630

Mr. Edward Rodenhizer  
Team Leader Signal Operations  
Phone: 410-787-7650

Mr. Eugene Bailey  
Team Leader Sign Operations  
410-787-7670

The Power Company Representative Is:  
SMECO  
901 Doreas Beach Road  
P.O. Box 37  
Prince Frederick, Maryland  
Phone: 410-535-4400

WIRING DIAGRAM



A  
B  
C  
ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

D  
ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

G  
NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

H  
J  
ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG), TC

K  
L  
M  
ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN

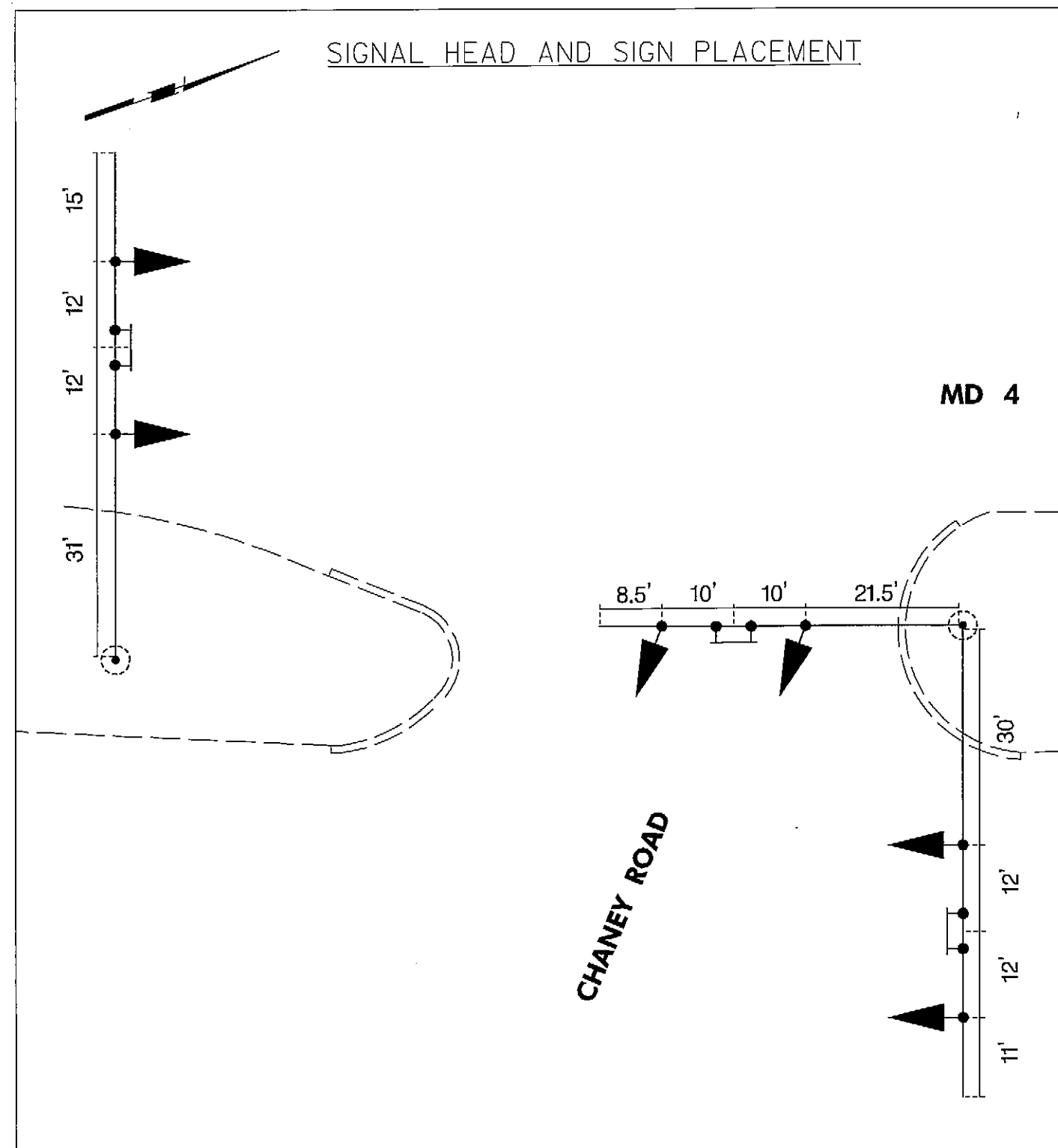
PPS  
PROPOSED POWER SERVICE (ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG - THHN/THWN 3 RUNS WITH 3-30' COILS OF SLACK CABLE AT UTILITY POLE, FINAL SERVICE CONNECTIONS SHALL BE MADE BY SMECO)

PPD  
PROPOSED PHONE DROP TO BE INSTALLED BY OTHERS

M  
PROPOSED METERED SERVICE PEDESTAL

R  
PROPOSED GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

SIGNAL HEAD AND SIGN PLACEMENT



PHASE CHART

	1	2	3	4	5	6
	(Y)	(Y)	(Y)	(Y)	(R)	(R)
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R

## EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9044	1 EA	UPDATED) CONTROLLER CABINET, SIZE 6
9570	24 SF	UPDATED) SHEET ALUMINUM GROUND MOUNTED SIGN: 1 EACH - R6-IL (36 IN. X 12 IN.) 1 EACH - RI-2 (36 IN. X 36 IN.) 1 EACH - R6-IR (36 IN. X 12 IN.) 1 EACH - RI-1 (36 IN. X 36 IN.)
9571	49 SF	UPDATED) SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN: 2 EACH - D-3(1) (96 IN. X 16 IN.) 1 EACH - MI-5(3) (108 IN. X 36 IN.) *SOUTH, ADVANCED LEFT ARROW, 4, NORTH, RIGHT ARROW*

## EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1003	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2002	3 CY	TEST PIT EXCAVATION
5002	40 LF	5 INCH HEAT APPLIED WHITE OR YELLOW PERMANENT PAVEMENT MARKINGS
5005	20 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
8001	6 EA	12 INCH LED SIGNAL HEAD SECTION
8007	2 EA	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP AND LUMINAIRE
8012	1 EA	EMBEDDED METERED SERVICE PEDESTAL
8021	1 EA	MAST ARM POLE & 70' MAST ARM ANY 'T' DIMENSION
8024	1 EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8027	1 EA	TWIN MAST ARM POLE & 50'/70' MAST ARMS ANY 'T' DIMENSION
8034	200 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
8036	75 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8037	36 LF	WOOD SIGN SUPPORTS UP TO 4" X 6"
8038	73 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8040	275 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8043	150 LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
8044	3 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8049	1 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8053	75 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8054	750 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8055	400 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
8061	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT

## EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO QUANTITY DESCRIPTION

NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

TOD NO: XX353-34M

SHA NO: CA387A52/K52

MD 4 @ Chaney Road

SHA

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 4 (SOUTHERN MARYLAND BLVD) AT CHANEY ROAD  
DUNKIRK, MD

## GENERAL INFORMATION SHEET

SCALE 1" = 20' ADVERTISED DATE 09/20/11 CONTRACT NO. XX3535168

DESIGNED BY KXT COUNTY CALVERT  
DRAWN BY KXT LOGMILE 04000435.72  
CHECKED BY SDY TMS NO. K087  
F.A.P. NO. TOD NO.

TS NO. 4785 DRAWING SG-02 OF 02 SHEET NO. 02 OF 02

PLOTTED: 09/20/11  
FILE: SPLES